

MV-CH1050-10YM

105 MP CoaXPress Area Scan Camera

MV-CH1050-10YM camera features liquid cooling and adopts Sony® BSI sensor to provide high-quality images. It uses 4-link CXP-12 interface to transmit non-compressed images in real time, and its max. frame rate can reach 45 fps.



GEN*i*CAM

Key Features

- Resolution of 10240 × 10240, and pixel size of 2.74 μm × 2.74 μm.
- Adopts global shutter CMOS sensor to provide high dynamic range and SNR, and high-quality images.
- Adopts 4-link CXP-12 interface to transmit data.
- Compatible with CoaXPress Protocol and GenICam Standard.
- Features liquid cooling for efficient heat dissipation and high-quality images.

Typical Application

- Electronic semiconductor
- PCB AOI
- FPD inspection



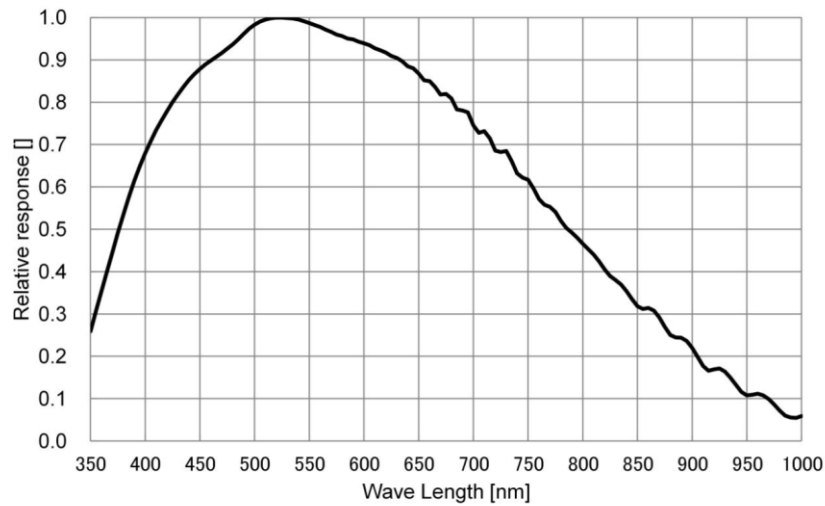
Specification

Model	MV-CH1050-10YM
Performance	
Sensor type	CMOS, global shutter
Sensor model	Sony® BSI
Pixel size	2.74 μm × 2.74 μm
Sensor size	39.7 mm diagonal
Resolution	10240 × 10240
Max. frame rate	45 fps @ 10240 × 10240 Mono 8
Dynamic range	60.6 dB
SNR	39.7 dB
Gain	0 dB to 18 dB
Exposure time	44 μs to 10 sec
Exposure mode	Off/Once/Continuous exposure mode
Mono/color	Mono
Pixel format	Mono 8/10/12
Binning	Supports 1 × 1, 1 × 2, 1 × 4, 2 × 1, 2 × 2, 2 × 4, 4 × 1, 4 × 2, 4 × 4
Decimation	Supports 1 × 1, 1 × 2, 1 × 4, 2 × 1, 2 × 2, 2 × 4, 4 × 1, 4 × 2, 4 × 4
Reverse image	Supports horizontal and vertical reverse image output
Electrical feature	
Data interface	CoaXPress with Micro-BNC interface
Digital I/O	12-pin P10 connector provides power and I/O, including opto-isolated input × 1 (Line 0), opto-isolated output × 1 (Line 1), bi-directional non-isolated I/O × 1 (Line 2), and RS-232 × 1.
Power supply	9 VDC to 24 VDC, supports PoCXP
Power consumption	Typ. 14.3 W @ 12 VDC
Mechanical	
Lens mount	M58*0.75, flange back length 11.48 mm
Dimension	73 mm × 60 mm × 43.7 mm (2.9" × 2.4" × 1.7")
Weight	Approx. 370 g (0.8 lb.)
Ingress protection	IP40 (under proper lens installation and wiring)
Temperature	Working temperature: 0 °C to 50 °C (32 °F to 122 °F) with liquid cooling circulation system Storage temperature: -30 °C to 80 °C (-22 °F to 176 °F)
Humidity	20% RH to 95% RH (no condensation)
General	
Client software	MVS or frame grabber software meeting with CoaXPress Protocol
Operating system	32-bit Windows 7/10, 64-bit Windows 10/11, and 32/64-bit Linux
Compatibility	CoaXPress, GenICam
Certification	CE, RoHS, KC

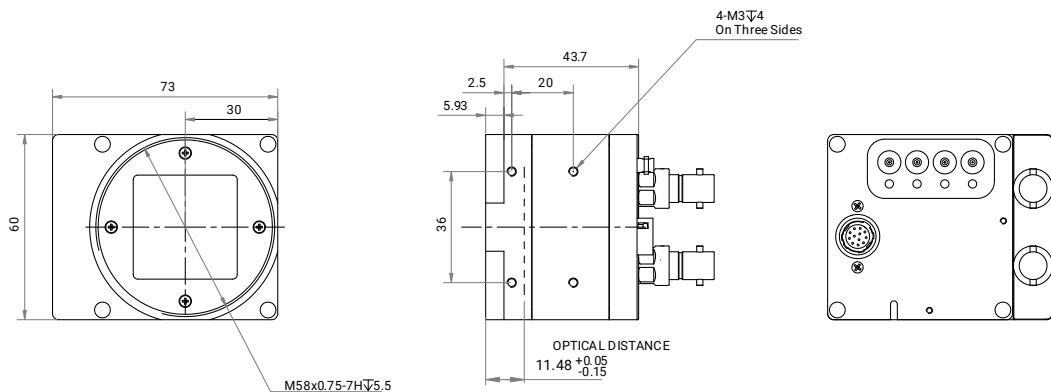
Available Model

■ MV-CH1050-10YM-M58S-NL

Sensor Quantum Efficiency



Dimension



Unit: mm